





GDL 69/69A XM[®] Satellite Radio Activation Instructions

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1 Overview

1.1 Introduction

Before the GDL 69/69A can be used, the unit must have services subscribed to and be activated by XM Satellite Radio. This document will take you through the process. Please note that the GDL 69 is a weather data link only. The GDL 69A is a weather data link AND audio receiver. This document covers the GDL 69/69A - MX20 Activation, the GDL 69/69A - G1000 Activation, GDL 69 - GNS 430/530 Activation, the GDL 69/69A - GNS 430W/530W Activation, GDL 69/69A - G600 Activation, and lastly the GDL 69/69A - GMX 200 Activation. There is a separate procedure for each type of installation. Before activating, the GDL 69/69A must be installed in accordance with the installation manual P/N 190-00355-02 Rev E or later.

It is essential to follow the activation instructions carefully, correctly, and completely. Improper activation may result in an installation that receives an incomplete set of weather products, or an installation that functions only part of the time.

1.2 Gather Information

Your GDL 69 or GDL 69A is shipped with one or two radio hardware identifications, respectively (Radio IDs). These IDs serve as identification codes for your XM-equipped GDL 69/69A and are needed in the activation process. The Audio ID is for the XM radio service, and the Data ID is for the weather products. The GDL 69 will have an Data ID whereas the GDL 69/69A with have an Audio ID AND a Data ID. The ID information is attached to the last page of this document. It is also printed on a label on the back of the unit. Be sure to visit <u>http://www.garmin.com</u> and verify that you have the latest revision of the documents listed in Table 1-1 that pertain to your equipment.

Unit	Document	Part Number
MX 20 MFD	MX 20 Pilot's Guide	560-1026-()
GNC 420(A)	GNC 420(A) Pilot's Guide and Reference	190-00140-20
GNS 430(A)	GNS 430(A) Pilot's Guide and Reference	190-00140-00
400W Series or 500W Series	400W/500W Series Pilot's Guide Addendum	190-00356-30
GPS 400	GPS 400 Pilot's Guide and Reference	190-00140-60
GPS 500	GPS 500 Pilot's Guide and Reference	190-00181-60
GNS 530(A)	GNS 530(A) Pilot's Guide and Reference	190-00181-00
GMX 200	GMX 200 Pilot's Guide	190-00607-02
GDU 620	G600 Pilot's Guide	190-00601-02
G1000 Integrated Flight Deck	G1000 Pilot's Guide	See Dealers Only website at garmin.com

Table	1-1.	Documents

NOTE

If your aircraft has not been powered on for an extended period of time your XM subscription may have been automatically deactivated. In the event that this happens you will need to refresh the unit. Refer to Section 2.2 (MX20), 3.4 (G1000), 4.4 (GNS 430/530), 5.3 (GNS 430W/530W), 6.2 (GMX 200), or 7.2 (G600) for the procedure on 'Refreshing'.

2 MX20 - GDL 69/69A Activation

The MX20 must be correctly configured to accept information from a GDL 69/69A, in accordance with the MX20 Multi-Function Display Installation Manual, P/N 560-1025-().

2.1 Activation Steps

1. Make sure that the aircraft's XM antenna has an unobstructed view of the southern sky.

It is highly recommended that the aircraft be outside of and away from the hangar.

2. Hook up the aircraft to external power if available.

The complete activation process may take 45-60 minutes or more, depending on the demand on the XM activation system.

3. Power on the avionics and allow the MX20 and GDL 69/69A to power up.

Do not power cycle the units during the activation process.

4. Verify that the yellow "GDL 69" failure flag is not displayed.

The absence of a failure flag confirms that the MX20 is communicating with the GDL 69/69A.

5. Go to the XM Activation Page.

- a) Press the **FN** key until the **FIS** function is displayed. Press the FIS smart key.
- b) Press the fourth smart key until **STATUS** is displayed.
- c) Press the **MENU/ENT** key.
- d) Press the line select key next to **Products**. **Diagnostics** and **Start Diag** will be displayed. (in software version 5.5, **Start Diag** will not be displayed.)
- e) Press the line select key next to **Diagnostics**.
- f) Activation will be displayed.

6. To activate service, call XM at 1.800.985.9200.

When activating the data service, specify Aviator LT, Aviator, or Aviator Pro. XM service should activate in 45 to 60 minutes. During the activation process the unit may display several different activation levels. This is normal and should be ignored. When the service class (Aviator LT, Aviator, or Aviator Pro) and **all** of the weather products for the class that you subscribed to are displayed, press the **Accept** smart key. See Table 2-1 for weather products available for the MX20. Wait 10 to 30 seconds to allow the GDL 69/69A to process the accept command and lock in the activation.

NOTE

During the activation process do not change channels or pages during this time.



Figure 2-1. Data Radio ID and Audio Radio ID Locations



Figure 2-2. MX20 with Full Channel List

7. For GDL 69A units, the audio portion is activated independently from the weather. The activations will not be simultaneous. Once the data channel is activated, bring up the XM Radio page on the MX20. This can be accomplished by pressing the FN key until XM is displayed. Press the XM smart key. A non-activated unit will display only channel 0 (Radio ID), channel 1 (XM Preview) and channel 247 (Emergency Alert). An activated unit will display the full list of XM channels. Tune to channel 1, while waiting for audio activation. Wait for the XM display to become populated with the XM channel list (see Figure 2.2 above for an example of what this looks like).

8. Select an XM channel in order to lock in the radio activation.

Channels 0, 1, and 247 are free preview channels and should not be used for this procedure. Press the **Chan** smart key and then press either the Up or Down Arrow key to select a new channel. Wait for the channel to be displayed in the Active Channel box at the top of the XM display. The XM radio activation is complete when the channel is displayed.

Product	Aviator Lite (Aviator LT) Subscription	Aviator Subscription	Aviator Pro Subscription
High Resolution NEXRAD Radar	\checkmark	\checkmark	\checkmark
Radar Coverage	\checkmark	\checkmark	\checkmark
Precipitation Type (at surface)	\checkmark	\checkmark	\checkmark
City Forcasts	\checkmark	\checkmark	\checkmark
TFRs	\checkmark	\checkmark	\checkmark
METARs	\checkmark	\checkmark	\checkmark
TAFs	\checkmark	\checkmark	\checkmark
County Warnings	\checkmark	\checkmark	\checkmark
Winds Aloft (at altitude)		\checkmark	\checkmark
Lightning		\checkmark	\checkmark
AIRMETs		\checkmark	\checkmark
SIGMETs		\checkmark	\checkmark
Echo Tops		\checkmark	\checkmark
Severe Weather Storm Tracks		\checkmark	\checkmark
Satellite Mosaic		\checkmark	\checkmark

Table 2-1. MX20 Weather Products Available in United States

2.2 Refreshing

If the unit is not activated after one hour (1.5 hours for the GNS 430/530 and GNS 430W/530W) a 'refresh' may be needed. To accomplish this go to the website <u>www.xmradio.com/refresh</u> as pictured below. Follow the instructions as described on the website. If you are refreshing both the data (weather) package and the audio package, you'll have to do the refresh steps twice.



Figure 2-3. Activation Refresh Page

After entering the radio ID, a success message or failure message will appear. Both are pictured below. If a failure message is received, then the radio ID entered is not in the system or a refresh signal request has already been entered into the XM system in the past 3 hours. Only one refresh signal can be sent over the XM system in a given 3-hour period. Call XM to confirm the activation of the radio.



Figure 2-4. Webpage Success Message

-	
	ACTIVATION REFRESH
	We're Sorry! We are unable to refresh your radio signal.
	An error has been identified preventing your request from being completed. Please call the XM Listener Care Center at 800-XM RADIO (800-967-2346) for assistance or <u>check the Radio ID and re-submit</u> .
	Refresh Activation on Another XM Radio >

Figure 2-5. Webpage Failure Message

After either receiving a success message or resolving the issue with XM, try the activation steps in Section 2.1 again. If you still are having trouble, call Garmin AT technical support.

2.3 Deactivating and Reactivating the GDL 69/69A

When the GDL 69/69A is not properly activated, in some cases it may be necessary to perform a full deactivation and reactivation of the system in order to make it work properly. This procedure is complicated and should never be attempted without the guidance of Garmin AT technical support personnel. Please contact Garmin AT technical support using the telephone numbers listed on page iii.

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3 G1000 – GDL 69/69A Activation

Prior to contacting XM, the GDU must be on and operational. For activation you will need your XM Audio Radio ID, XM Data Radio ID and your billing information. Your XM Audio Radio ID and Data Radio ID can be found on the last page of this document. If for some reason you do not have your IDs, you will be able to find your Radio IDs on the XM page in the **AUX** group. The steps below will take you through the process.

- 1. Make sure that the aircraft's XM antenna has an unobstructed view of the southern sky. It is not recommended for the aircraft to be in a hangar.
- 2. Hook up the aircraft to external power if available. The activation process may take 45-60 minutes or more, depending on the demand on the XM activation system.
- 3. Power on the avionics and allow the G1000 to power up.
- 4. Rotate the outer **FMS** knob clockwise until the **AUX TRIP PLANNING** page displays. See Figure 3-1.



Figure 3-1. AUX - TRIP PLANNING Page

- 5. Rotate the inner **FMS** knob clockwise until the **AUX-XM INFORMATION** page is displayed. Press the INFO smart key to view your **Audio Radio ID** and **Data Radio ID**. See Figure 3-2 for these locations.
- 6. A list of **Weather Products** will also be shown on the bottom half of the screen. Boxes filled in green will correspond with the type of subscription you have access. For example, if the weather subscription you have purchased allows NEXRAD, the box next to NEXRAD will be green.





3.1 Verify the Radios are Ready to be Activated

The **AUX - XM INFORMATION page** has two modes, Radio Information and Radio Operation. The page should default to **INFO** mode (if the radio is not activated). You will need to be on this page when you call for activation. You can change modes with the **RADIO/INFO** soft keys. The **INFO** page should look like Figure 3-2.

Pressing the **RADIO** smart key will display the **AUX – XM RADIO** page and will look similar to Figure 3-3 If the radio is inactivated and working properly the G1000 will display the free-to-air channels, which are channel 0 (Radio ID), channel 1 (XM Preview) and channel 247 (Emergency Alert). If you can see the free-to-air channels and can hear channel 1, you are ready to activate your radios. Press the soft key under **INFO** and the page will return to the **INFO** page.



Figure 3-3. AUX – XM Radio Page

3.2 Activating the Radio

The G1000 needs to be on the **INFO** page for activation. Call 1.800.985.9200 and the XM operator will ask you for your Data Radio ID and Audio Radio ID. Activation should begin once the XM operator has all your information. During activation the **INFO** page will show the various Weather Products being activated. The activation process is not complete until a valid service class is shown. Once activation has been completed, verify that the Service Class and Weather Products shown are the services that you purchased. If you are satisfied that you received the products you requested, press the soft key under **LOCK**. This will bring up a small inset window as shown in Figure 3-4. Press the **ENT** key lock in your activation.

NOTE



During the activation process do not change channels or pages during this time.



Figure 3-4. Lock Activation Screen

3.3 Verifying Subscribed Services

When the data radio (weather receiver) has been activated, the subscription level will be shown in the service class field. To see what products are available with your subscription level, see Table 3-1 or Table 3-2. You can see that the activation was successful by pressing the soft key under **RADIO**. You should see a complete listing of all the channels of your subscription as shown in Figure 3-5.

NAV1 117.95 ↔1 NAV2108.00	10.30 17.95	<u>б</u> 5 <mark>90кт</mark>	VSR FPH ETE AUX - XM RADIO	ESAFT	136.975 ↔ 136.975	122.825 сонт 118.000 сонг
20 ²⁵ 30 15 35 46 40	ACTI Stev Holes	VE CHANNEL, e Wariner s In The Flo	XH 11 Nashville!			
NAN IN HG		CHANNELS	NAME	TITLE	CATEGORY	
10 ¹⁵ 20 5 x100 25 5 x100 25		+0 1 XM Preview	RADIO ID: Hank's Place	1UH7400G XM 13		
RPH Ø		4 The 40s 5 The 50s	Gary Hiles		Decades Decades	
FUEL OTY GAL		6 The 60s	Abba		Decodes	
0 10 20 30 40 49 FFLOW GPH 10.0		8 The 80s	Duran Duran		Decades	
0 45 OIL PSI 0		10 America	Barbara Mandrell		Country	
0 <u>1L</u> 'F 32	ELEN	12 X Country	Kenny Cheshey		Country	
20 ^{III 'F} 30	- Num	13 Hank's Place 14 Bluegrass Juncti	Hank Thompson Cowan and Flynn		Country Country	
		15 Folk Village	John Flynn		Country	
AILERON TRIM		ALL CATEGORIES		000000 66%	NAD UDT AIN LIDOT	000000
					NUM INT NUM INTST	

Figure 3-5. Channel Listings Screen

Product	Aviator Lite (Aviator LT) Subscription	Aviator Subscription	Aviator Pro* Subscription
High Resolution NEXRAD Radar	\checkmark	\checkmark	\checkmark
Radar Coverage	\checkmark	\checkmark	\checkmark
Precipitation Type (at surface)	\checkmark	\checkmark	\checkmark
City Forcasts	\checkmark	\checkmark	\checkmark
TFRs	\checkmark	\checkmark	\checkmark
METARs	\checkmark	\checkmark	\checkmark
TAFs	\checkmark	\checkmark	\checkmark
County Warnings	\checkmark	\checkmark	\checkmark
Winds Aloft (at altitude)		\checkmark	\checkmark
Lightning		\checkmark	\checkmark
AIRMETs		\checkmark	\checkmark
SIGMETs		\checkmark	\checkmark
Echo Tops		\checkmark	✓
Freezing Level		\checkmark	\checkmark
Severe Weather Storm Tracks		\checkmark	\checkmark
Surface Weather Maps		\checkmark	\checkmark
Satellite Mosaic		\checkmark	\checkmark
AIREPs		\checkmark	\checkmark
PIREPs		\checkmark	\checkmark
Turbulence			\checkmark
Current Icing Product (CIP)			\checkmark
Supercooled Large Droplets (SLD)			\checkmark
Hurricane Track			\checkmark

 Table 3-1. G1000 Weather Products Available in United States

*Available for units that have V9.10 software or later.

Product	Aviator Subscription	Aviator Pro* Subscription
High Resolution NEXRAD Radar	\checkmark	\checkmark
Radar Coverage	\checkmark	\checkmark
METARs	\checkmark	\checkmark
TAFs	\checkmark	\checkmark
Canadian Weather Warnings	\checkmark	\checkmark
Winds Aloft (at altitude)	\checkmark	\checkmark
AIRMETs	\checkmark	\checkmark
SIGMETs	\checkmark	\checkmark
Surface Weather Maps	\checkmark	\checkmark
PIREPs	\checkmark	\checkmark

Table 3-2. G1000 Weather Products Available in Canada

*Available for units that have V9.10 software or later.

3.4 Refreshing

If the unit is not activated after one hour a 'refresh' may be needed. To accomplish this go to the website <u>www.xmradio.com/refresh</u> as explained in Section 2.2. When asked for the Radio ID number on the website, enter the ID number of the service you are refreshing, either your audio package or your data (weather) package. If refreshing both, you'll have the opportunity to 'refresh another XM radio'. If you still are having trouble, call Garmin technical support using the telephone numbers listed on page iii.

3.5 Deactivating and Reactivating the GDL 69/69A

When the GDL 69/69A is not properly activated, in some cases it may be necessary to perform a full deactivation and reactivation of the system in order to make it work properly. This procedure is complicated and should never be attempted without the guidance of Garmin AT technical support personnel. Please contact Garmin AT technical support using the telephone numbers listed on page iii.

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4 GNS 430/530 – GDL69 Activation

For activation you will need your XM Data Radio ID and your billing information. If your unit is a GDL 69A, which comes with a Data Radio ID and an Audio Radio ID, only the Data Radio ID is displayed on the GNS 430/530, since the GNS 430/530 does not support audio services. Your Data Radio ID can be found on the last page of this document and on the 430/530 Data Link Status page (see Section 4.2 below).

4.1 Activation Steps

- 1. Make sure that the aircraft's XM antenna has an unobstructed view of the southern sky. It is not recommended for the aircraft to be in a hangar.
- 2. Hook up the aircraft to external power if available. The activation process may take 45-60 minutes or more, depending on the demand on the XM activation system.
- 3. Power on the avionics and allow the GNS 430/530 to power up.
- 4. Call XM Satellite Radio 1.800.985.9200. The XM operator will ask you for your Data Radio ID.

NOTE

During the activation process do not change channels or pages during this time.

4.2 Verify Signal Reception

- 1. Access the GDL 69 Data Link Status Page. This page can be found by rotating the **outer knob** until the **AUX** menu page displays.
- 2. Rotate the inner knob until the DATA LINK page with the item DATA LINK STATUS is listed.



Figure 4-1. Data Link Menu Page

- 3. Press the **CRSR** knob. The first item on the page will blink. Turn either the outer knob or inner knob clockwise until **DATA LINK STATUS** is blinking.
- 4. Press the ENT button. The following page will be displayed.



Figure 4-2. Data Link Status Page

- 5. Refer to Table 4-1 to read the **SAT ID/CONNECTIVITY** information.
- 6. Verify radio IDs and signal quality is between 2 3. If signal quality is zero, check the antenna and wiring.

SAT ID Field			
" "	GDL 69/69A – 430/530 Series interface communications not yet established.		
'XM'	"XM" GDL 69/69A not yet communicating with internal satellite radio hardware (normal during power-up).		
'X0', 'X1', 'X2', or 'X3' 'X' = Satellite radio service activated. Satellite signal quality is indicated by the numbers 0, 1, 2, or 3; where 0=none, 1=poor, 2=good, and 3=excellent.			
'-0', '-1', '-2', or '-3' '-' = Satellite radio service is not activated. Satellite signal quality is indicate the numbers 0, 1, 2, or 3; where 0=none, 1=poor, 2=good, and 3=excellent			
Connectivity Field			
"Searching" No satellite is currently in view, signal quality is '0'.			
"Satellite in view"	Indicates a signal quality between 1 and 3.		

Table 4-1. Data Link Status

4.3 Verify XM Subscribed Services

The 430/530 supports the following weather services: NEXRAD, graphical METAR, text-based METAR, Wind, and Graphical Temperature/Dew Point. These services are available only in the United States. Verify included services by displaying them on the unit, if applicable. If signal quality is between 1 and 3, but no data is displayed, contact XM Satellite Radio to verify subscription. Be sure that the unit is updated with the most current software.

4.3.1 Verify NEXRAD

To select the Weather Page from the Data Link Page:

- 1. Turn the **large outer knob** on the right and move through the Page Groups until the NAV Page Group is selected.
- 2. Turn the **small inner knob** on the right until the Weather Page is selected. NEXRAD data is displayed on the screen similar to Figure 4-3, if available. If no weather is in the area, look for NEXRAD timer in the upper right corner to confirm delivery of NEXRAD.



Figure 4-3. Weather Page

4.3.2 Verify Graphical METAR

To display Graphical METARs on the NAV Weather Page:

- 1. Select the NAV Weather Page.
- 2. Press **CRSR**. The upper left hand corner field flashes.
- 3. Turn small right knob and select 'METAR'.
- 4. Press **CRSR**. Graphical METAR data is displayed on the screen similar to Figure 4-4, if available.



Figure 4-4. Graphical METAR Page

4.3.3 Verify Textual METAR

To select the METARs Text Page:

- 1. Turn the **larger outer knob** on the right and move through the Page Groups until the AUX Page Group is selected.
- 2. Turn the **small inner knob** on the right to the Data Link Page.
- 3. Press **PUSH CRSR** and turn **small inner knob** to highlight Request METAR, put in airport ID, then go back and select Textural METAR. Turn small knob and select airport from list. Press **ENT**. The airports are added to the list through the Request METAR page.
- 4. Press ENT. The Textual METAR Page is displayed for the airport you selected similar to Figure 4-5, if available. You can enter a different identifier by highlighting 'TEXTUAL METAR' and press ENT. Turn the small right knob and scroll through the list of four letter identifiers.

СОН	TEXTUAL HETAR	СОН	TEXTUAL METAR
136.975 118.000	APT KAIZ	136.975 118.000	
VLOC	KAIZ 101515Z AUTO	VLOC	KAIZ 101515 KAIZ
108.60	20014G20KT 10SM TS	108.60	
117.95	SCT018 BKN038 BKN055	117.95	SCTØ18 BKNØ: KMCI 55
DIS	21/17 A2998 RMK A01 TSB13	DIS	21/17 A2998 KMKC TSB13
m		m	KSTJ
ENR		ENR	
GPS	MSG AUX 000	GPS	MSG AUX DOD

Figure 4-5. Textual METAR Page

4.3.4 Verify Wind

To display wind data on the NAV Weather Page:

- 1. Select the NAV Weather Page.
- 2. Press **CRSR**. The upper left hand corner data field flashes.
- 3. Turn the **small right knob** and select 'WINDS'.
- 4. Press **CRSR**. The wind icons are displayed on the NAV Weather Page similar to Figure 4-6, if available.



Figure 4-6. Wind Data Page

4.3.5 Verify Temperature/Dewpoints

To display Temperature/Dewpoints on the NAV Weather Page:

- 1. Select the NAV Weather Page.
- 2. Press **CRSR**. The upper left hand corner data field flashes.
- 3. Turn the small right knob and select 'TEMP/DP'.
- 4. Press **CRSR**. The Temperature/Dewpoints are displayed on the NAV Weather Page similar to Figure 4-7, if available.



Figure 4-7. Temperature/Dewpoints Page

NOTE

For all 400/500 Series units: After verifying that all weather products have been received, leave unit on for an additional 1.5 hours to allow subscription lock-in process to take place.

4.4 Refreshing

If the unit is not activated after 1.5 hours a 'refresh' maybe needed. To accomplish this go to the website <u>www.xmradio.com/refresh</u> as explained in Section 2.2. When asked for the Radio ID number on the website, enter the Data ID number and then follow the steps as outlined on the website. If you still are having trouble, call Garmin technical support using the telephone numbers listed on page iii.

4.5 Deactivating and Reactivating the GDL 69/69A

When the GDL 69/69A is not properly activated, in some cases it may be necessary to perform a full deactivation and reactivation of the system in order to make it work properly. This procedure is complicated and should never be attempted without the guidance of Garmin AT technical support personnel. Please contact Garmin AT technical support using the telephone numbers listed on page iii.

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5 GNS 430W/530W – GDL69/GDL69A Activation

For activation of a GDL 69 you will need your XM Data Radio ID, and for activation of a GDL 69A you will need your XM Data Radio ID and Audio Radio ID, and your billing information. Your Data and Audio Radio IDs can be found on the last page of this document and on the 430W/530W XM Information page (see Section 5.2 below).

5.1 Activation Steps

- 1. Make sure that the aircraft's XM antenna has an unobstructed view of the southern sky. It is not recommended for the aircraft to be in a hangar.
- 2. Hook up the aircraft to external power if available. The activation process may take 45-60 minutes or more, depending on the demand on the XM activation system.
- 3. Power on the avionics and allow the GNS 430W/530W to power up.
- 4. Call XM Satellite Radio 1.800.985.9200. The XM operator will ask you for your Data Radio ID, and Audio Radio ID (if GDL 69A).

NOTE



During the activation process do not change channels or pages during this time.

5.2 Verify Signal Reception

- 1. Access the XM Information page. This page can be found by rotating the **outer knob** until the **AUX** menu page displays.
- 2. Rotate the inner knob until the XM INFORMATION page is displayed.



Figure 5-1. XM Information Page

- If the GDL69 VER field displays "---" then GDL 69/69A to GNS 430W/530W interface communications are not yet established. Check GDL 69A power, RS-232 configuration, and/or wiring.
- 4. Verify DATA ID contains the eight character identification code.
- 5. Verify DATA SIGNAL quality is either "Weak" or "Strong". If signal quality is "Antenna" or "None', check the antenna and wiring.

- 6. If you have a GDL 69A, Verify Audio ID contains the eight character identification code. Then verify that AUDIO SIGNAL quality is either "Weak" or "Strong". If signal quality is "Antenna" or "None', check the antenna and wiring.
- 7. SERVICE CLASS will initially read "DETECTING ACTIVATION". After the your activation request is completely processed by the XM activation system the service class field should change to the class that corresponds to the service level that you requested. This value will either be Aviation LT or Aviator.

For a list of weather products available for the service level you requested, see Table 5-1.

8. When the correct Service Class is being displayed, press the MENU key, select the "Lock Data Link Activation" menu item by highlighting it, then press the ENT key. This locks your activation into the GDL 69A.



Figure 5-2. XM Information Page Menu

NOTE

For all 400W/500W Series units, verify that all weather products have been received. Leave unit on for 1.5 hours to allow all weather products to be received. Do not change channels or pages during this time.

Table 5-1. GNS 430W/530W Weather Products Available in United States

Product	Aviator Lite (Aviator LT) Subscription	Aviator Subscription	Aviator Pro Subscription
High Resolution NEXRAD Radar	\checkmark	\checkmark	\checkmark
Radar Coverage	\checkmark	\checkmark	\checkmark
Precipitation Type (at surface)	\checkmark	\checkmark	\checkmark
TFRs	\checkmark	\checkmark	\checkmark
METARs	\checkmark	\checkmark	\checkmark
TAFs	\checkmark	\checkmark	\checkmark
Winds Aloft (at altitude)		\checkmark	\checkmark
Lightning		\checkmark	\checkmark
Severe Weather Storm Tracks		\checkmark	\checkmark

X

5.2.1 Verify Textual METAR

To select the METARs Text Page:

- 1. Turn the **larger outer knob** on the right and move through the Page Groups until the WPT Page Group is selected.
- 2. Turn the small inner knob on the right to the Textual METAR page.
- 3. Press **PUSH CRSR** and turn **small inner knob** to enter airport ID.
- 4. Press **ENT**. The Textual METAR Page is displayed for the airport you selected similar to Figure 4-5, if available. You can enter a different identifier by highlighting 'TEXTUAL METAR' and press **ENT**. Turn the **small right knob** and scroll through the list of four letter identifiers.



Figure 5-3. Textual METAR Page

5.3 Refreshing

If the unit is not activated after 1.5 hours a 'refresh' maybe needed. To accomplish this go to the website <u>www.xmradio.com/refresh</u> as explained in Section 2.2. When asked for the Radio ID number on the website, enter the ID number of the unit you are refreshing, either your audio package or your data (weather) package. If refreshing both, you'll have the opportunity to 'refresh another XM radio'. If you still are having trouble, call Garmin technical support using the telephone numbers listed on page iii.

5.4 Deactivating and Reactivating the GDL 69/69A

When the GDL 69/69A is not properly activated, in some cases it may be necessary to perform a full deactivation and reactivation of the system in order to make it work properly. This procedure is complicated and should never be attempted without the guidance of Garmin AT technical support personnel. Please contact Garmin AT technical support using the telephone numbers listed on page iii.

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6 GMX 200 - GDL 69/69A Activation

The GMX 200 must be correctly configured to accept information from a GDL 69A, in accordance with the GMX 200 Multi-Function Display Installation Manual, P/N 190-00607-04 (or later).

6.1 Activation Steps

- 1. Make sure that the aircraft's XM antenna has an unobstructed view of the southern sky. It is highly recommended that the aircraft be outside of and away from the hangar.
- 2. Hook up the aircraft to external power if available. The complete activation process may take 45-60 minutes or more, depending on the demand on the XM activation system.
- 3. Power on the avionics and allow the GMX 200 and GDL 69/69A to power up. Do not power cycle the units during the activation process.
- 4. Verify that the yellow "GDL 69" failure flag is not displayed. The absence of a failure flag confirms that the GMX 200 is communicating with the GDL 69/69A.
- 5. Go to the XM Activation Page
 - a) Press the **FN** key until the **FIS** function is displayed. Press the FIS smart key.
 - b) Press the fourth smart key until STATUS is displayed.
 - c) Press the **MENU/ENT** key.
 - d) Press the line select key next to **Products**. **Diagnostics** and **Start Diag** will be displayed. (in software version 5.5, **Start Diag** will not be displayed.)
 - e) Press the line select key next to **Diagnostics**.
 - f) Activation will be displayed.
- 6. To activate service, call XM at 1.800.985.9200.

When activating the data service, specify Aviator LT, Aviator, or Aviator Pro. XM service should activate in 45 to 60 minutes. During the activation process the unit may display several different activation levels. This is normal and should be ignored. When the service class (Aviator LT, Aviator, or Aviator Pro) and **all** of the weather products for the class that you subscribed to are displayed, press the **Accept** smart key. Wait 10 to 30 seconds to allow the GDL 69/69A to process the accept command and lock in the activation. To see the available weather products for your subscription level see Table 6-1.

NOTE



During the activation process do not change channels or pages during this time.

Product	Aviator Lite (Aviator LT) Subscription	Aviator Subscription	Aviator Pro Subscription
High Resolution NEXRAD Radar	\checkmark	\checkmark	\checkmark
Radar Coverage	√	\checkmark	\checkmark
Precipitation Type (at surface)	\checkmark	\checkmark	\checkmark
City Forecasts	\checkmark	\checkmark	\checkmark
TFRs	\checkmark	\checkmark	\checkmark
METARs	\checkmark	\checkmark	\checkmark
TAFs	\checkmark	\checkmark	\checkmark
County Warnings	\checkmark	\checkmark	\checkmark
Winds Aloft (at altitude)		\checkmark	\checkmark
Lightning		\checkmark	\checkmark
AIRMETs		\checkmark	\checkmark
SIGMETs		\checkmark	\checkmark
Echo Tops		\checkmark	\checkmark
Freezing Level		\checkmark	\checkmark
Severe Weather Storm Tracks		\checkmark	\checkmark
Surface Weather Maps		\checkmark	\checkmark
Satellite Mosaic		\checkmark	\checkmark
Hurricane Track			\checkmark

Table 6-1. GMX 200 Weather Products Available in United States





Fight 26 Hits OCG Goe Aga O26 Hits OCG GOE Goe Aga O26 Hits Goe Aga O26 Hits Goe Aga O14 Fight 20 Hits Goe Aga O14 Fight 20 Hits Goe Aga O14 Fight 20 Hits Con Aga O14 Fight 2	05			1	10 F
OK GO Here IL Goze Aga UZO All Categories All Categories 17 US Country Dri His Fans 20 Top 20 on 20 Fidelity 21 Nike Com Chatter Superstar 22 Nike Com Chatter Superstar 23 The Heart Mode 24 Sumy con Part Almon Lover 25 The Heart Mode 24 Sumy con Part Almon Lover 25 The Bland Sometimes When W 26 The Nondoway Farmer and the C 29 U-DOP So U-Mode Pressur 20 U-DOP So U-Mode Pressur 20 U-DOP Sold To Vita Cot And To Wita Cot And To Med	PL	light 26	Hits 000		
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23 The Heart My Girl 24 Sumy cm Parktime Lover 25 The Blend Sometime Swhen W 26 Filth 20 Here IF Gots Ags 27 Cinemagic Elmer Barnstein 28 On Broadway Farmer and the C 29 U-POP So Under Pressur 30 XH Helist Do It To It 33 Spirit Tel The World 34 enLighten When Sparrows Fa	2	2 MIX cm	The Freshmen	Mute	Ξ
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25 The Blend Sometimes When W 20 Filph23 Here If Goes Aga 27 Cinemagic Elmer Bernstein 28 On Broadway Farmer and the C 29 UPOP So Under Pressur 30 XM Hitikt Do It To It 33 Spirit Tel The World 34 enLighten When Sparrows Fa	2	4 Sunny cm	Part-time Lover		Ξ
20 Flight 25 Here If Goes Aga 27 Cinemagic Einer Bernstein 28 On Broadway Farmer and the C 29 L-POP So Under Pressur 30 XM Hitlist Dolt Tolt 31 Split Tel The World 33 Split Tel The World 34 enLighten When Sparrows Fa	2	5 The Blend	Sometimes When W		
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	3	enLighten	When Sparrows Fa		i,
A STATE OF A					
Cat Direct •xM Sat Radio		Cat	Direct •XM Sat. Radio		Г



7. For GDL 69A units, the audio portion is activated independently from the weather. The activations will not be simultaneous. Once the data channel is activated, bring up the XM Radio page on the GMX 200. This can be accomplished by pressing the FN key until XM is displayed. Press the XM smart key. A non-activated unit will display only channel 0 (Radio ID), channel 1 (XM Preview) and channel 247 (Emergency Alert). An activated unit will display the full list of XM channels. Tune to channel 1, while waiting for audio activation. Wait for the XM display to become populated with the XM channel list (see Figure 6-2 above for an example of what this looks like).

8. Select an XM channel in order to lock in the radio activation.

Channels 0, 1, and 247 are free preview channels and should not be used for this procedure. Press either the Up or Down Arrow key and then press the SEL key to select a new channel. Wait for the channel to be displayed in the Active Channel box at the top of the XM display. The XM radio activation is complete when the channel is displayed.

6.2 Refreshing

If the unit is not activated after one hour a 'refresh' may be needed. To accomplish this go to the website <u>www.xmradio.com/refresh</u> as explained in Section 2.2. When asked for the Radio ID number on the website, enter the ID number of the service you are refreshing, either your audio package or your data (weather) package. If refreshing both, you'll have the opportunity to 'refresh another XM radio'. If you still are having trouble, call Garmin AT technical support using the telephone numbers listed on page iii.

6.3 Deactivating and Reactivating the GDL 69/69A

When the GDL 69/69A is not properly activated, in some cases it may be necessary to perform a full deactivation and reactivation of the system in order to make it work properly. This procedure is complicated and should never be attempted without the guidance of Garmin AT technical support personnel. Please contact Garmin AT technical support using the telephone numbers listed on page iii.

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7 G600 – GDL 69/69A Activation

Prior to contacting XM, the GDU must be on and operational. For activation you will need your XM Audio Radio ID, XM Data Radio ID and your billing information. Your XM Audio Radio ID and Data Radio ID can be found on the last page of this document. If for some reason you do not have your IDs, you will be able to find your Radio IDs on the XM page in the **AUX** group. The steps below will take you through the process.

- 1. Make sure that the aircraft's XM antenna has an unobstructed view of the southern sky. It is not recommended for the aircraft to be in a hangar.
- 2. Hook up the aircraft to external power if available. The activation process may take 45-60 minutes or more, depending on the demand on the XM activation system.
- 3. Power on the avionics and allow the G600 to power up.
- 4. Rotate the large **MFD** knob clockwise to the first page of the **AUX** group. Rotate the small **MFD** knob to the **XM Information** page. See Figure 7-1.

DATA RADIO			ADIO	
ID LØCD508	J	ID	ZGKT60HJ	
SIGNAL STRONG		SIGNAL	STRONG	
Aviator Pro				
	i			
AIRMET	FRZ L	.VL I	SIGMET	
	LTNG		SFC	
CLD TOP	METAF	R I	TAF	
COUNTY	NEXR/	AD I	TFR	
	= Radaf	R CVRG	WIND	
ECH0 TOP	SCIT			
When activation has been completed, press the LOCK				
softkey to lock the	e activatio	In.		
XM INFORMATION	MAP	WX AUX FP		
LOCK	<u> </u>	<u> </u>	ALEF	RTS

Figure 7-1. XM Information Page

5. A list of **Weather Products** will also be shown in the middle of the screen. Boxes filled in green will correspond with the type of subscription you have access. For example, if the weather subscription you have purchased allows NEXRAD, the box next to NEXRAD will be green. To see the weather products available for each subscription level see Table 7-1.

Product	Aviator Lite (Aviator LT) Subscription	Aviator Subscription	Aviator Pro Subscription
High Resolution NEXRAD Radar	\checkmark	\checkmark	\checkmark
Radar Coverage	\checkmark	\checkmark	\checkmark
Precipitation Type (at surface)	\checkmark	\checkmark	\checkmark
City Forecasts	\checkmark	\checkmark	\checkmark
TFRs	\checkmark	\checkmark	\checkmark
METARs	\checkmark	\checkmark	\checkmark
TAFs	\checkmark	\checkmark	\checkmark
County Warnings	\checkmark	\checkmark	\checkmark
Winds Aloft (at altitude)		\checkmark	\checkmark
Lightning		\checkmark	\checkmark
AIRMETs		\checkmark	\checkmark
SIGMETs		\checkmark	\checkmark
Echo Tops		\checkmark	\checkmark
Freezing Level		\checkmark	\checkmark
Severe Weather Storm Tracks		\checkmark	\checkmark
Surface Weather Maps		\checkmark	\checkmark
Satellite Mosaic		\checkmark	\checkmark
Hurricane Track			\checkmark

Table 7-1. G600 Weather Products Available in United States

7.1 Verify the Radios are Ready to be Activated

If the radio is inactivated and working properly the G600 will display the free-to-air channels, which are channel 0 (Radio ID), channel 1 (XM Preview) and channel 247 (Emergency Alert). If you can see the free-to-air channels and can hear channel 1, you are ready to activate your radios.

	TIVE	Channel				
	ANNE	LS				
	CHA	NNEL		TITLE		
+	Ø	RADIO ID			Î	
	1	XM Preview			Į	
	247	7 Emergency Ale	rts			
					Ļ	
All	Cate	gories	MUTE			
Tip	: Use	the right knot	to select	t channels.		
XM Ré	DIO		MAP WX	AUX FPL 00		
Cł	INL	CATGRY	VOL	PRESETS	ALERTS	

Figure 7-2. AUX – XM Radio Page

7.2 Activating the Radio

NOTE

During the activation process do not change channels or pages during this time.

The G600 will need to be on the **XM INFORMATION page** of the AUX Group when you call for activation. Press the soft key under **LOCK** and the following window will appear. See Figure 7-1.

Call 1.800.985.9200 and the XM operator will ask you for your Data Radio ID and Audio Radio ID. Activation should begin once the XM operator has all your information. During activation the **XM Information** page will show the various Weather Products being activated. The activation process is not complete until a valid service class is shown. Once activation has been completed, verify that the Service Class and Weather Products shown are the services that you purchased. If you are satisfied that you received the products you requested, press the soft key under **LOCK**. This will bring up a small inset window as shown in Figure 7-3. Rotate the small **MFD** knob to YES and press the **ENT** key lock in your activation.

This should be done c	only for the i	nitial or a chang	e of
subsc	ription. Cont	inue?	
YES	or	NO	

Figure 7-3. Lock Activation Screen

7.3 Verifying Subscribed Services

When the data radio (weather receiver) has been activated, the subscription level will be shown in the service class field. See Figure 7-1. Rotate the large **MFD** knob to the XM Radio page. Press the **CH**-and **CH**+ soft key to verify that the channel changes. You should see a complete listing of all the channels of your subscription as shown in Figure 7-4.

ACTIVE CHANNEL XM 32 The Message Needtabreathe Signature Of Div Christian					
CHANNELS					
CHANNEL	TITLE				
2 XMX	Statler Brothes				
4 The 40s	Cinderella, Stay				
5 The 50s	Tonight Show				
6 The 60s	The Watusi				
7 The 70s	70s on 7!				
8 The 80s	Shock The Monkey				
9 The 90s	Do You Know (Wha				
10 America	Statler Brothers				
12 X Country	You Never Can Te				
All Categories	MUTE				
Tip: Use the right knob to select channels.					
XM RADIO MAP WX AUX FPL 0 0					
CH - CH +	DIR CH BACK				

Figure 7-4. Channel Listings Screen

7.4 Refreshing

If the unit is not activated after one hour a 'refresh' may be needed. To accomplish this go to the website <u>www.xmradio.com/refresh</u> as explained in Section 2.2. When asked for the Radio ID number on the website, enter the ID number of the service you are refreshing, either your audio package or your data (weather) package. If refreshing both, you'll have the opportunity to 'refresh another XM radio'. If you still are having trouble, call Garmin technical support using the telephone numbers listed on page iii.

7.5 Deactivating and Reactivating the GDL 69/69A

When the GDL 69/69A is not properly activated, in some cases it may be necessary to perform a full deactivation and reactivation of the system in order to make it work properly. This procedure is complicated and should never be attempted without the guidance of Garmin AT technical support personnel. Please contact Garmin AT technical support using the telephone numbers listed on page iii.

IMPORTANT!

CONTAINS **GDL 69/69A** INFORMATION REQUIRED FOR XM SATELLITE RADIO ACTIVATION

This document MUST be given to the aircraft owner at time of delivery.

IMPORTANT!

CONTAINS **GDL 69/69A** INFORMATION REQUIRED FOR XM SATELLITE RADIO ACTIVATION

This document MUST be given to the aircraft owner at time of delivery.

PLACE XM RADIO ID# HERE